The communist party

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April 2025

FOL is defined by adding a 1-ary function symbol f to the language of first order set theory with countably many variable term symbols and the set-membership relation symbol $\in$

Let Shar(FOL) denote the power set of all well-formed formula in FOL + +$\mathsf{ACA}_{0\mathrm{FOL}}$ in FOL " where $\mathsf{ACA}_{0\mathrm{FOL}}$ denotes ACA_0 written in FOL

a binary relation $\prec$ is called super if $\prec$ satisfies the following property

$(\forall x)[\neg x \prec x] \wedge$
$(\forall x)(\forall y)[x \prec y \vee x = y \vee y \prec x] \wedge$
$(\forall x)(\forall y)(\forall z)[x \prec y \wedge y \prec z \rightarrow x \prec z] \wedge$
$(\forall X \subseteq \mathbb{N})[(\forall x)[(\forall y \prec x)[y \in X] \rightarrow x \in X] \rightarrow (\forall x)[x \in X]]$

For any sufficiently strong theory $T \in$ Shar(FOL)

$\mathrm{PTO}(T) := \sup\{\mathrm{otyp}(\prec) \mid \prec \subseteq \mathbb{N}^2 \wedge \prec \in \Delta_0 \wedge T \vdash \prec \text{ is super}\}$

for any set S binary relation $\in_{sub}$ defined by the following:

$\forall p(p \in_{sub} S \leftrightarrow \exists k(k \subseteq S \wedge p \in k))$

Let a set

$\mathrm{S} = \{T \in_{sub} \mathrm{Shar(FOL)} | \mathrm{PTO}(T) < \omega_1^{CK}$ and the length of T less than $12 \uparrow^{12} 12$ characters$\}$

The communist party [in chinese] is equal to $\mathrm{TR}(\mathcal{T}, 12 \uparrow^{12} 12)$ with respect to TR function where T$\in$ S is a theory such that $\forall \mathcal{C} \in \mathrm{S} \backslash \{\mathcal{T}\}, \mathrm{TR}(\mathcal{T}, 12 \uparrow^{12} 12) > \mathrm{TR}(\mathcal{C}, 12 \uparrow^{12} 12)$